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bibliography
... OMG Object Model drafts, OMG Architecture Guide, Maynard, **MA**, Object Management Group ... The IADC **Roller Bit** Classification System, IADC/SPE 23937, February 1992. ...
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... S. Kramadibrata, **MA** Rai, S. Darmawan, and I. Arif. ... Pilot hole drilling was based on rotational methods using a tricone **roller bit** of 11 inch diameter. ...
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... on the bit and stick his nose on the ground) We have been switching him 3 days on each of two bits, one is the new pessoa **roller bit**, and the ... D i'**ma** proud mom ...
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????
... TOTAL Q'TY, 6, 11, 15, 18. WEIGHT (kg), 3500, 5500, 8000, 11000. 4. ??

? ??. ??????? **ROLLER BIT** ????(?0311621?, 2001.9.26). ...
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CLASS 175 BORING OR PENETRATING THE EARTH

1 **WITH SEISMIC SHOCK GENERATING**

2 **BORING WITH EXPLOSION IN INACCESSIBLE HOLE**

3 . Severing formed core by explosion

3.5 . Explosive charge carried by projectile

4 . Driving core receiver by explosion or with receptacle collecting material in bore

4.5 . Directing successive projectiles or charges in same path

4.51 . With position orienting or indicating

4.52 . With wall engaging packer or anchor

4.53 . Firing chamber movable in bore relative to carrier or another firing chamber

4.54 . With bore condition firing control, or compensating means

4.55 . Independent firing of plural charges

4.56 . Firing control mechanically actuated in bore

4.57 . Projectile forms bore

4.58 .. With means to initially restrain projectile for pressure build-up

4.59 .. With means to prevent preliminary bore fluid contact

4.6 . Concave-shaped charge

5 **BORING A SUBMERGED FORMATION**

6 . Boring with underwater tool drive prime mover

7 . Boring from floating support with submerged independent anchored guide base

8 . Boring from submerged buoyant support

9 . Boring from nonbuoyant support

10 . Boring with submersible vertically movable guide

11 **BORING BY DIRECTLY APPLYING HEAT TO FLUIDIZE OR COMMINUTE**

12 . Combustion of the formation material

13 . With introduction of slag forming flux

14 . Combustion is confined chamber having restricted discharge orifice

15 . Rotating the heating tool

16 . Electrically produced heat

17 **WITH HEATING OR COOLING (1) WITHIN THE BORE, OR (2) DRILLING FLUID**

18 **ICE BORING**

19 **BORING WITHOUT EARTH REMOVAL (I.E., COMPACTING EARTH FORMATION)**

20 . Combined with earth removal (e.g., removing sample)

21 . Fluid passage to exterior of drive point

22 . Drive point detached from shaft to form cased bore or with installation of casing
23 . . Drive point retracted through shaft or casing
24 **AUTOMATIC CONTROL**
25 . Of fluid pressure below ground
26 . Of boring means including a below-ground drive prime mover
27 . Of advance or applied tool weight
38 . In response to drilling fluid circulation
39 **WITH BIT WEAR SIGNAL GENERATING**
40 **WITH SIGNALING, INDICATING, TESTING OR MEASURING**
41 . Ray energy detection or measuring
42 . Indicating agent released in drilling fluid
44 . Providing identifiable indication of core position in situ for core sample orientation
45 . Tool position direction or inclination measuring or indicating within the bore
46 . Signaling or indicating condition of cutting in cuttings retainer
48 . Measuring or indicating drilling fluid (1) pressure, or (2) rate of flow
49 . Transparent inspection feature
50 . Indicating, testing or measuring a condition of the formation
51 **WITH SELF-ACTING CYCLIC ADVANCE AND RETRACTION OF TOOL OR TOOL SHAFT**
52 **WITH MAGAZINE FOR SUCCESSIVELY MOVING UNCONNECTED, ORIENTED TOOL OR SHAFT SECTIONS TO USE POSITION**
53 **ENLARGEMENT OF EXISTING PILOT THROUGHBORE REQUIRING ACCESSIBILITY TO EXISTING OPPOSITE BORE ENDS TO INSERT AND REMOVE TOOL**
54 **BORING BY BELOW GROUND RECIRCULATION OF UNSUPPORTED ELEMENTS (E.G., SHOT)**
55 **TOOL ACTUATION BY REACTION OF ROTATING ECCENTRIC MASS**
56 **NATURAL VIBRATION CHARACTERISTIC OF AN ELEMENT OF BORING MEANS RELATED (1) TO NATURAL VIBRATION CHARACTERISTIC OF ANOTHER ELEMENT, OR (2) TO FREQUENCY OF AN IMPOSED MOTION**
57 **PROCESSES**
58 . Sampling of earth formations
59 . . Retaining fluid or taking separate fluid sample
60 . . Transporting sample to surface by fluid
61 . Boring curved or redirected bores
62 . Boring horizontal bores
64 . Chemical reaction with earth formation or drilling fluid constituent
65 . Boring with specific fluid
66 . . Treating spent or used fluid above ground
67 . . Boring by fluid erosion

68 .. Anti-agglomeration treatment of gaseous drilling fluid
69 .. Combined liquid and gaseous fluid
70 .. Plural distinguishable liquids
71 .. Gaseous fluid or under gas pressure
72 .. Prevention of lost circulation or caving
73 **MEANS TRAVELING WITH TOOL TO CONSTRAIN TOOL TO BORE ALONG CURVED PATH**
74 . Sectional guide or shaft having means to lock sections in angular relation while boring
75 . Normally curved guide or shaft
76 . Axially spaced opposed bore wall engaging guides
77 **SIDE WALL TOOL FED LATERALLY WITHOUT ROTATION FROM INACCESSIBLE HOLE**
78 **MEANS CARRIED BY HOUSING INSERTABLE IN INACCESSIBLE HOLE TO ADVANCE SIDE WALL TOOL LATERALLY**
79 **TOOL SHAFT ADVANCED RELATIVE TO GUIDE INSERTABLE IN INACCESSIBLE HOLE TO CHANGE DIRECTION OF ADVANCE**
80 . Tool telescopes over guide having surface set at angle in hole
81 . With anchor for guide engaging hole side wall
82 . Guide carried by shaft to operative position
83 .. With clutch means acting between shaft and guide
84 **WITH ABOVE-GROUND CLEANER FOR BORING MEANS**
85 **WITH ORIENTING OR RACKING MEANS FOR UNCONNECTED TOOLS OR SECTIONS OF SHAFT OR CASING**
86 **WITH BELOW-GROUND PERSONAL ACCOMMODATION**
87 **CONVERTIBLE**
88 **WITH MEANS CARRYING CUTTINGS LATERALLY OF BORE AXIS COMPRISING (1) CHUTE, (2) CONVEYER, OR (3) VEHICLE**
89 **TOOL ELEMENT OR CONTINUOUSLY DRIVEN FLEXIBLE OR ARTICULATED ENDLESS MEMBER**
90 . Flexible or articulated member carried on support swingable or laterally movable relative to bore axis
91 **BORING MEANS INCLUDING A CONTINUOUSLY ROTATING BIT DESCRIBING A NONCIRCULAR CROSS-SECTIONAL BORE**
92 **WITH BELOW-GROUND TOOL DRIVE PRIME MOVER**
93 . Below-ground (1) generation of motive fluid, or (2) storage of motivating energy
94 . With below-ground feed means
95 . Plural below-ground drive prime movers
96 .. Plural cutter elements driven by individual prime movers
97 . With means to anchor prime movers support to bore wall

212 . Pressurized gas supply
213 . With suction pump inlet communicating with bore bottom
214 . Fluid head on tool shaft having lateral port and axial passage with seal for means reciprocable in the head
215 . With tool shaft having plural passages for drilling fluid
216 . Standpipe
217 . With pump
218 . With valve
219 **WITH PARTICULAR ACCOMMODATION FOR PERSONNEL (E.G., SEAT OR PROTECTOR)**
220 **WITH ABOVE-GROUND GUIDE FOR RELATIVELY ADVANCING TOOL**
226 **WITH SAMPLE COVERING OR COATING MEANS (1) DISPENSED INTO SAMPLE RECEIVER, OR (2) FLUENT**
227 **WITH STORAGE MEANS FOR BIT LUBRICANT CARRIED BY BIT OR SHAFT**
228 . With fluid pressure-actuated feed means
229 . Rotation of bit actuates lubricant feed means
230 **WITH EXPANSIBLE BORE WALL ANCHOR (E.G., PACKER)**
231 **WITH MEANS MOVABLE RELATIVE TO TOOL BELOW GROUND TO CONTROL ECCENTRIC FLUID EMISSION**
232 **WITH MEANS MOVABLE RELATIVE TO TOOL BELOW GROUND TO STOP FLOW TOWARD BORE BOTTOM**
233 . Movable to seal sample receiver at bore bottom pressure
234 . With longitudinally spaced valve seats
235 . . Seat engaged to stop upward flow
236 . In sample receiver removable through below-ground tool shaft
237 . Means comprises dropped element
238 . Flow-stopping means includes relatively movable cutter element
239 . With undisturbed core receiver
240 . . Movable means adapted to underlie severed core
241 . Stops flow by movement about fixed pivot
242 . . Pivot transverse to tool axis
243 . Resiliently biased or composed of flexible material
244 **WITH MEANS MOVABLE RELATIVE TO TOOL TO RECEIVE, RETAIN, OR SEVER UNDISTURBED CORE**
245 . Core bit closure relative upwardly movable by core
246 . Receiver removable through below-ground tool shaft
247 . . With fluid pressure-responsive means to remove receiver or operate latch

248 .. Core forming cutting edge or element on receiver
249 . Core-retaining or severing means
250 .. Fluid-actuated
251 .. Actuated upon relative movement between tool and tool shaft
252 ... Relative rotary movement
253 .. With element holding retaining or severing means inactive
254 .. Mounted on transverse pivot
255 .. Sliding wedge type (e.g., slips)
256 **WITH RELEASABLE MEANS NORMALLY HOLDING JOINTED SHAFT SECTIONS IN ANGULAR RELATION**
257 **TOOL REMOVABLE OR INSERTABLE THROUGH OR AROUND DRIVING OR DRIVEN SHAFT OR CASING**
258 . Laterally shiftable cutter element movable through shaft
259 .. Plural cutter elements longitudinally relatively movable into transverse alignment
260 .. Cutter element engages torque transmitting abutment on shaft when expanded
261 ... With additional torque transmitting abutment on bit head and shaft
262 . Tool movable exteriorly of shaft
263 **CUTTER ELEMENT LATERALLY SHIFTABLE BELOW GROUND (E.G., EXPANSIBLE)**
264 . With separable means holding tool collapsed above ground only
265 . Plural cutter elements longitudinally relative movable into transverse alignment
266 . Plural selectively shiftable cutter elements
271 . With latch operated by fluid pressure or dropped element
267 . Cutter element shifted by fluid pressure
268 .. With dropped element
269 .. Fluid pressure acts against spring biased part
270 . Cutter element shifted by dropped element
272 . Cutter element shifted by relatively longitudinally movable threaded elements
273 . Cutter element shifted by cam or gear axially rotatable relative to shaft
274 . With shifting mechanism spring biased to operative position
275 .. With separate latch
276 ... Frangible or discardable element
277 ... Latch holds mechanism retracted
278 .... Latch return shifting mechanism to inoperative position
279 .. Cam or gear means movable to shift cutter element
280 ... With forwardly extending noncutting portion

281 .. Cutter element substantially longitudinally movable on shaft
282 ... Plural elements expanded into single socket
283 ... With forwardly extending noncutting portion
284 . Cutter element shifted by longitudinally relatively movable parts
285 .. Toggle or linkage between movable parts
286 .. Cam or gear engaging cutter element
287 ... With separate latch holding cutter element in shifted position
288 ... Cutter element substantially longitudinally movable on shaft
289 ... Cutter element spring biased to retracted position
290 . With latch
291 . Spring biased
292 . Pivoted about substantially longitudinal axis
293 **BELOW-GROUND (1) HAMMER, OR (2) IMPACT MEMBERS**
294 . Combined with safety joint
295 . With noncutting portion forwardly of sleeve impact member having a cutting portion (e.g., reamer)
296 . Fluid-operated
297 .. Restricted orifice for initially delaying escape of restraining fluid
298 . Continuous unidirectional rotary motion of one telescoping member effects consecutive impacts
299 . Resiliently biased
300 . With releasable means to detachably retain telescoping members against axial reciprocation
301 .. Frangible
302 .. Condition for release adjustable
303 ... Adjustable below ground
304 .. Resiliently biased latch
305 . Telescoping members relatively rotatable
306 .. With means to couple members to prevent relative rotation
307 **WITH CUTTING EDGE COVER**
308 **WITH RECEPTACLE**
309 . Removable or insertable through below-ground tool shaft
310 . With helical conveyer
311 . Suspended below bit
312 . Sieve or strainer
313 **WITH MECHANICAL CLEANER FOR BIT OR CUTTER ELEMENT**
314 **WITH WELL-TYPE SCREEN**
315 **COMBINED**
316 **WITH RELATIVELY MOVABLE PARTS TO FACILITATE CLEANING WITHOUT DISASSEMBLY**
317 **WITH MEANS MOVABLE RELATIVE TO TOOL OR SHAFT TO CONTROL BELOW-GROUND PASSAGE**

318 . Valve prevents upward flow

319 **BELOW-GROUND MECHANICAL MOTION CONVERTING MEANS RELATIVELY MOVING PLURAL CUTTING EDGES**

320 **WITH TOOL SHAFT DETAIL**

321 . Axially telescoping shaft section

322 .. Telescoping motion related to relative axial rotation or oscillation

323 . Helix or helically arranged structure

324 . Means other than tool structure to induce fluent flow

325.1 . Shaft carried guide or protector

325.2 .. Coupled between shaft sections or bit and shaft section

325.3 ... With bore wall engaging means rotatable relative to shaft section (e.g., with bearings)

325.4 ... Having removable inserts

325.5 .. Surrounding existing shaft section

325.6 ... Held by a fastener parallel to shaft axis

325.7 ... Held by discrete fastening means tangential to shaft axis

326 .. Engaging means advances in adjacent hole

327 **BIT OR BIT ELEMENT**

331 . Rolling cutter bit or rolling cutter bit element

332 .. Core forming-type bit

333 ... With core-breaking means

334 .. Bit with leading cutter forming smaller diameter initial bore

335 ... Leading fixed cutter

336 .. Rolling cutter bit with fixed cutter

337 .. With drilling fluid supply to bearing

338 .. With rotary or endless carrier

339 .. With drilling fluid conduit details

340 ... Fluid conduit lining or element (e.g., slush tube or nozzle)

341 .. Plural rolling cutters with intermeshing teeth

342 .. Adjustable cutter element

343 .. Wobbling cutter

344 .. Noncutting portion forwardly of rolling cutter (e.g., reamer)

345 ... Longitudinal axis cutter

346 .... Separable support for cutter axle

347 .... Removable axle or bushing

348 .. Longitudinal axis cutter

349 ... With transverse axis cutter

350 .. Laterally offset cutter axis

351 ... Disk blade

352 .... Plural coaxial cutters

353 ... Cone or frustum rolling cutter

354 .. Axle rotatable with cutter

355 .. Circumferentially displaced cutter axes

356 ... Stub axle only
357 ... Detachable multiaxis support or spider
358 ... Mutually contacting cutter supports
359 .... With bearing or seal details
360 .. Cross axle with stub axle
361 .. Cross axle
362 ... Vertically disaligned cross axle sections
363 ... Separable supports
364 ... Removable cross axle or bushing
365 .. Outwardly directed stub axle
366 .. Separable support for stub axle
367 .. Detachable stub axle, bushing or bearing
368 ... Releasable cutter securing device
369 .. Stub axle cutter securing means
370 ... Released by antifriction bearing disassembly
371 .. With bearing or seal details
372 ... Antifriction type
373 .. Disk cutter
374 .. Specific or diverse material
375 ... Welded
376 .. Nonsymmetrical bit (e.g., nontracking)
377 .. Spiral rib or tooth row
378 .. Irregular tooth cutter row
379 . Cutting edge self-renewable during operation
380 . Unsupported abrading particle type (e.g., shot)
381 . Cutting edges relatively longitudinally movable during operation
382 . Adjustable cutter element
383 .. Adjustment presents different cutting edge
384 .. Radially adjustable
385 . Bit with leading portion (e.g., pilot) forming smaller diameter initial bore
386 .. Leading portion is separable starter
387 .. Leading portion is core forming type
388 .. Leading portion is a screw
389 .. Impact type
390 ... Plural larger diameter steps
391 .. Plural larger diameter steps
392 .. Leading portion is forked rotary type
393 . With fluid conduit lining or element (e.g., slush tube)
394 . With helical-conveying portion
395 .. Impact type
396 . Axially parallel side wall with transverse cuttings retaining portion
397 . Forked rotary nontracking
398 . Nonsymmetrical bit
399 .. With bore wall engaging guide
400 .. Nonsymmetrical arrangement of opening for cuttings or fluid

401 . Cutting edges facing in opposite axial directions
402 . Casing shoe type
403 . Core forming type
404 .. With core-breaking means
405 .. Impact or percussion type
405.1 .. Includes diamond
406 . Noncutting portion forwardly of cutting portion (e.g., reamer)
407 .. Impact type
408 . With bit guide or bore wall compacting device
412 . Plural separable cutter elements
413 .. Independently attachable
414 . Impact or percussion type
415 .. Combined with rotary
416 .. Noncircular bore cutter
417 .. With internal-fluid passage
418 ... Plural openings
419 ... Cruciform
420 .. Cruciform
420.1 .. Insert
420.2 ... Includes diamond
421 . Symmetrical forked rotary type (e.g., fishtail)
328 . Magnetized or with magnet
425 . Specific or diverse material
426 .. Insert
427 ... For a mine roof drill bit type
428 ... Preformed cutting element (e.g., compact) mounted on a distinct support (e.g., blank, stud, shank)
429 .... Including a nozzle
430 .... Having a noncircular or nonplanar cutting face
431 .... Having a particular orientation or location
432 .... With support detail
433 .... Having a specified thermal property
434 .. Diamond
435 .. Welded, brazed, or soldered
424 **MISCELLANEOUS (E.G., EARTH-BORING NOZZLE)**
423 **WEDGING SLIP ASSEMBLY FOR SUPPORTING A PIPE OR ROD**

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